

APPARATUS FOR CALCULATING IMMUNITY FROM RADIATED  
ELECTROMAGNETIC FIELD, METHOD FOR ACHIEVING CALCULATION,  
AND STORAGE MEDIUM STORING PROGRAMS THEREFOR

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ABSTRACT OF THE DISCLOSURE

10           An apparatus for calculating immunity from a  
radiated electromagnetic field which makes possible high  
speed simulation of the electric current flowing through  
an electronic apparatus due to a radio wave radiated from  
an antenna, and a method and a storage medium storing  
15           programs used for the same, which divides a radio wave  
radiated from an antenna into a carrier wave, upper  
sideband wave, and lower sideband wave and uses the  
moment method to simulate the effect of the radio wave on  
an electronic apparatus by calculating the mutual  
20           impedance for just one frequency component out of the  
above three frequency components and using that mutual  
impedance to solve the simultaneous equations under the  
moment method so as to calculate the electric current  
flowing through the electronic apparatus and using that  
25           mutual impedance to solve the simultaneous equations  
under the moment method for one frequency among them,  
while ignoring the wave source of the electronic  
apparatus, so as to calculate the electric current of the  
frequency component flowing through the electronic  
30           apparatus and calculating the electric currents of the  
remaining frequency components by proportional  
operations, whereby it is able to calculate the electric  
current flowing through the electronic apparatus due to a  
radio wave radiated from the antenna at a high speed.